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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,366	07/27/2001	Yasuhito Suzuki	50090-309	6983
75	90 06/18/2003			
McDermott, Will & Emery 600 13th Street, N.W. Washington, DC 20005-3096			EXAMINER	
			VU, QUANG D	
		•	ART UNIT	PAPER NUMBER
			2811	
		DATE MAILED: 06/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary Office Action Summary	•			<u> </u>			
Examiner Quang D Vu 2811 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CPR 1.136(a). In no event, however, may a regly be timely filled after St (8) (MONTHS from the maining date of this communication If the period for right specified above is less than thinky (30) days, a regly within the set of responsible to right specified above is less than thinky (30) days, a regly within the set of responsible to regly specified above is less than thinky (30) days, a regly within the set of responsible to regly specified above is less than thinky (30) days, a regly within the set of responsible to regly specified above is less than thinky (30) days, a regly within the set of responsible to regly specified above is less than thinky (30) days, a regly within the set of responsible to regly specified above is less than thinky (30) days, a regly within the set of responsible to regly specified and the provision of the set of this communication Failune for growth with the set of restriction as flet file mailing date of this communication, even if timely filed, may reduce any semine patient man application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ○ Claim(s) 1-13 is/are pending in the application. 4) ○ Claim(s) 5-8 is/are allowed. 6) ○ Claim(s) 5-8 is/are allowed. 6) ○ Claim(s) 5-8 is/are allowed. 6) ○ Claim(s) 5-8 is/are allowed. 7) □ Claim(s) 1-13 is/are rejected to. 8) □ Claim(s) 5-8 is/are allowed. 10) □ The proposed drawing are required in reply to this Office action. 11) □ The proposed flavor and the set of the provision of the data and the set of the provision of the provision of the provision of	·		Application No.	Applicant(s)			
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 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 	12) The oath or declaration is objected to by the Examiner.						
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Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notice of Draftsperse	on's Patent Drawing Review (PTO-948)	5) Notice of Informal				

Art Unit: 2811

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,886,408 to Ohki et al.

Regarding claim 1, Ohki et al. (figure 22) teach a semiconductor package comprising: a die pad (a supporting layer under the chip [232-3]);

a die (232-3) mounted on the die pad (a supporting layer under the chip [232-3]);

a sealing member (resin package [235]) sealing therein the die (232-3), the bonding wires, parts of the outer leads (237) and a part of the die pad (a supporting layer under the chip [232-3]), and having an upper surface on the side of the die (232-3) and a lower surface on the side of the die pad;

wherein the outer leads (237) have upper electrical connecting surfaces on the side of the upper surface of the sealing member (an upper portion of the resin package [235]), and lower electrical connecting surfaces on the side of the lower surface of the sealing member (an upper portion of the resin package [235]), respectively, and the outer leads (237) have a height from a plane including the lower surface of the sealing member (an upper portion of the resin package

Art Unit: 2811

[235]) greater than that of the upper surface of the sealing member (an upper portion of the resin package [235]) from the same plane.

Since a plurality of outer leads (237) electrically connected to the thin film multi-layer circuit board 231 by bonding wires and the dies (232-3) electrically connected to the thin film multi-layer circuit board 231 by the external electrodes, the plurality of outer leads (237) electrically connected to the external electrodes of the die by bonding wires, respectively.

Regarding claim 2, Ohki et al. teach the upper electrical connecting surfaces of the outer leads (237) formed on the side of the upper surface of the sealing member (an upper portion of the resin package [235]) lie outside a projection region of the upper surface of the sealing member (an upper portion of the resin package [235]).

Regarding claim 4, Ohki et al. teach the outer leads (237) are formed in an L-shape (see figure 22).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 5,886,408 to Ohki et al.

Regarding claim 3, Ohki et al. teach the sealing member has four sides (column 14, lines 38-40). Ohki et al. differ from the claimed invention by not showing the outer leads are formed

Art Unit: 2811

on the four sides of the sealing member. It would have been obvious to one having ordinary skill in the art at the time the invention was made for the outer leads are formed on the four sides of the sealing member because they increase the number of external connections between the die and the external circuit.

Regarding claim 9, Ohki et al. (figure 22) teach a semiconductor device comprising:

a printed wiring board (257),

a die pad (a supporting layer under the chip [232-3]),

a die (232-3) mounted on the die pad (a supporting layer under the chip [232-3]);

a sealing member (resin package [235]) sealing therein the die (232-3), the bonding wires,

parts of the outer leads (237) and a part of the die pad (a supporting layer under the chip [232-

3]), and having an upper surface on the side of the die (232-3) and a lower surface on the side of

the die pad;

wherein the outer leads (237) have upper electrical connecting surfaces on the side of the upper surface of the sealing member (an upper portion of the resin package [235]), and lower electrical connecting surfaces on the side of the lower surface of the sealing member (an upper portion of the resin package [235]), respectively, and the outer leads (237) have a height from a plane including the lower surface of the sealing member (an upper portion of the resin package [235]) greater than that of the upper surface of the sealing member (an upper portion of the resin package [235]) from the same plane.

Since a plurality of outer leads (237) electrically connected to the thin film multi-layer circuit board 231 by bonding wires and the dies (232-3) electrically connected to the thin film

Art Unit: 2811

multi-layer circuit board 231 by the external electrodes, the plurality of outer leads (237) electrically connected to the external electrodes of the die by bonding wires, respectively.

Ohki et al. differ from the claimed invention by not showing a plurality of semiconductor packages mounted on the printed wiring board, each semiconductor package having an upper surface of a sealing member thereof facing the printed wiring board. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a plurality of semiconductor packages mounted on the printed wiring board, each semiconductor package having an upper surface of a sealing member thereof facing the printed wiring board because a plurality of similar devices may be used to form a desired circuit on a printed wiring board. It has been held that mere duplication of parts has no patentable significance unless a new and unexpected result is produced.

It is inherent that the outer leads of each of the packages connected to electrodes formed on the printed wiring board.

Regarding claim 10, Ohki et al. teach the upper electrical connecting surfaces of the outer leads (237) formed on the side of the upper surface of the sealing member (an upper portion of the resin package [235]) lie outside a projection region of the upper surface of the sealing member (an upper portion of the resin package [235]).

Regarding claim 11, Ohki et al. teach the sealing member has four sides (column 14, lines 38-40). Ohki et al. differ from the claimed invention by not showing the outer leads are formed on the four sides of the sealing member. It would have been obvious to one having ordinary skill in the art at the time the invention was made for the outer leads are formed on the

Page 6

Art Unit: 2811

four sides of the sealing member because they increase the number of external connections between the die and the external circuit.

Regarding claim 12, Ohki et al. teach the outer leads (237) are formed in an L-shape (see figure 22).

Regarding claim 13, Ohki et al. teach the heat sink (236) constitutes the heat radiating passage above the circuit board (see figure 22). Ohki et al. differ form the claimed invention by not showing the die pad of the semiconductor package is provided on is exposed surface with a cooling fin. It would have been obvious to one having ordinary skill in the art at the time the invention was made for the die pad of the semiconductor package is provided on is exposed surface with a cooling fin because it depends on the amount of heat that dissipated from the die.

Allowable Subject Matter

- 5. Claims 5-8 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

 The most closely related art, US Patent No. 5,886,408 to Ohki et al. Ohki et al. do not anticipate or render the claimed invention such as a plurality of semiconductor packages, stacked up on the printed wiring board with outer leads included therein; wherein each of the plurality of semiconductor packages comprises; the outer leads have upper electrical connecting surfaces on the side of the upper surface of the sealing member, and lower electrical connecting surfaces on the side of the lower surface of the sealing member, respectively, and the outer leads have a height from a plane including the lower surface of the sealing member greater than that of the upper surface of the sealing member from the same plane.

Art Unit: 2811

Response to Arguments

Applicant's arguments filed 03/18/03 have been fully considered but they are not persuasive.

It is argued, in page 1 of the remarks, that Ohki et al. do not teach or suggest a semiconductor device having outer leads that include upper electrical connecting surfaces on the side of the upper surface of the sealing member and lower electrical connecting surfaces on the side of the lower surface of the sealing member, respectively, and the outer leads have a height from a plane including the lower surface of the sealing member greater than that of the upper surface of the sealing member from the same plane. This argument is not convincing because Ohki teaches a semiconductor device having outer leads (237) that include upper electrical connecting surfaces on the side of the upper surface of the sealing member (an upper portion of the resin package [235]), and lower electrical connecting surfaces on the side of the lower surface of the sealing member (an upper portion of the resin package [235]), respectively, and the outer leads (237) have a height from a plane including the lower surface of the sealing member (an upper portion of the resin package [235]) greater than that of the upper surface of the sealing member (an upper portion of the resin package [235]) from the same plane.

It is argued, in page 2 of the remarks, that Ohki et al. do not teach or suggest a semiconductor device having outer leads that include upper electrical connecting surfaces on the side of the upper surface of the sealing member. This argument is not convincing because Ohki teaches a semiconductor device having outer leads (237) that include upper electrical connecting

Art Unit: 2811

surfaces on the side of the upper surface of the sealing member (an upper portion of the resin package [235]).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang D Vu whose telephone number is 703-305-3826. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Art Unit: 2811

Page 9

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

qv June 14, 2003 Heron Lake